

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/002901

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 C22C 38/00**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C22C 38/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and Applications for Invention since 1975

Korean Utility Models and Applications for Invention since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

KIPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 2000-39137 see the whole document 2000.07.05	1-13, 42-53
A	KR 2003-53770 see the whole document 2003.07.02	1-13, 42-53
A	US 6,524,726 B1 see the whole document 2003.02.25	1-13, 42-53
A	US 4,908,073 see the whole document 1990.03.13	1-13, 42-53

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family


Date of the actual completion of the international search

23 DECEMBER 2004 (23.12.2004)

Date of mailing of the international search report

**03 JANUARY 2005 (03.01.2005)**

Name and mailing address of the ISA/KR



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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/002901

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2000-39137	2000.07.05.	NONE	
KR 2003-53770		2003.07.02.	NONE
US 6,524,726 B1 1999.11.05		2003.02.25.	JP 11305987 A2
1002884 A1	2000.05.24.		EP
US 4,908,073 1990.01.30.		1990.03.13.	JP 02004657 B4
00850720 B1	1987.10.21.		EP